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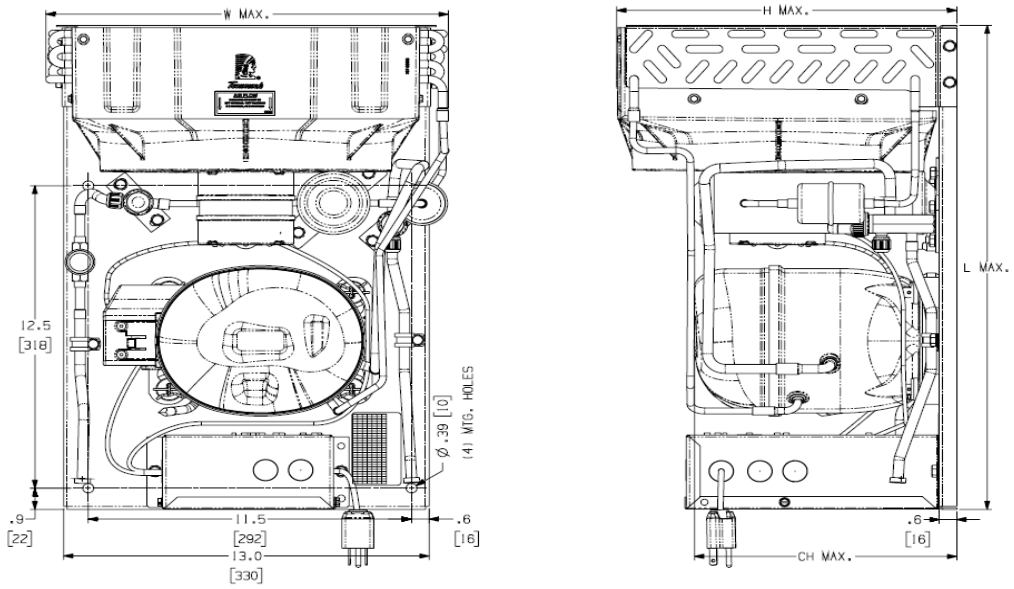
Celseon® Air Cooled Condensing Unit

Model: AE4460Y-AA3CD*
BoM: 2G227- R-134a 1/2 HP**



Model	Dimensions, inches				Line Connection*		Pumpdown	Air	Oil Ch	Gr. Wt.
	L	W	H	CH	Suction	Liquid	90 °F 90%	SCFM	Oz.	Lbs.
AE4460Y-AA3CDA	20.0	14.3	12.1	9.3	3/8" S	1/4" S	N/A	270	9.5	45
AE4460Y-AA3CDG					3/8" S	3/8" S	3.2 lbs			47
AE4460Y-AA3CDH					3/8" S	3/8" S	N/A			45
AE4460Y-AA3CDK					3/8" S	1/4" S				45
AE4460Y-AA3CDC					3/8" S	3/8" S	3.2 lbs			47
AE4460Y-AA3CDS					3/8" S	3/8" S	N/A			45
AE4460Y-AA3CDJ					3/8" S	3/8" S	3.2 lbs			47
AE4460Y-AA3CDP					3/8" S	3/8" S	3.2 lbs			47

* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting
Factory charge: 20 PSIG Nitrogen – **MUST BE EVACUATED**

		Ambient Temperatures											
Evaporator T,		80°F			90°F			100°F			110°F		
°F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
5	9.0	2511	517	95	2315	530	104	2125	544	114	1941	558	123
10	11.9	2856	545	97	2650	560	106	2449	575	116	2253	590	125
15	15.0	3221	573	99	3004	590	108	2790	607	118	2580	624	127
20	18.4	3719	614	101	3494	633	110	3271	653	120	3050	672	129
25	22.1	4134	646	103	3895	667	113	3657	688	122	3419	710	131
30	26.1	4563	679	106	4308	702	115	4053	725	125	3797	748	134
35	30.4	5003	713	108	4731	737	118	4457	762	127	4181	787	136
40	35.0	5452	748	111	5160	774	120	4866	801	130	4568	828	139
45	40.1	5905	784	114	5593	812	123	5277	841	132	---	---	---

60 Hz Performance

Return gas temp 40°F below 20°F evaporator,
and 65°F above 20° evap, 5°F sub cooling

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Specifications/ Parts:

Unit Model	**AE4460Y-AA3CDA**
Unit Bill of Material	**2G227-09**
Refrigeration Range	5° F to 45° F
Design Pressure Low	150
Design Pressure High	450
Nominal Volts-Hz-Ph	115-60-1
Voltage Range	103-127
Min. Circuit Ampacity	11.6
Max. Fuse Size (amps)	20
Compressor Model	AE4460Y-AA3C
Comp. Bill of Material	AE-1183-E
Compressor RLA/LRA	8.6/49
Overload	External
Relay	820-10074
Run Capacitor	85PR370F23
Run Capacitor Rating	30MFD 370V(M) VDE
Start Capacitor	85PS165C99
Start Capacitor Rating	270-324 MFD 165V
Fan Motor	810-10003
Fan Motor RLA	.85
Fan Blade	515-10003
Fan Shroud/Guard Combo	707-00005
Condenser	506-10008
Unit Drawing	DGU1972-01
Wiring Diagram	91266-02
Replacement Kit: Relay	K71-51
Replacement Kit: O/L	K90-71

Unit Model	**AE4460Y-AA3CDG**
Unit Bill of Material	**2G227-19**
Receiver Tank	510-10000
Liquid Valve	56659
Suction Valve	56659
Unit Model	**AE4460Y-AA3CDH**
Unit Bill of Material	**2G227-29**
Liquid Valve	56659
Suction Valve	56659
Unit Model	**AE4460Y-AA3CDK**
Unit Bill of Material	**2G227-39**
Power Cord	85106-14
Unit Model	**AE4460Y-AA3CDC**
Unit Bill of Material	**2G227-59**
Receiver Tank	510-10000
Liquid Valve	56659
Suction Valve	56659
Power Cord	85106-14
Unit Model	**AE4460Y-AA3CDS**
Unit Bill of Material	**2G227-69**
Liquid Valve	56659
Suction Valve	56659
Power Cord	85106-14
Unit Model	**AE4460Y-AA3CDJ**
Unit Bill of Material	**2G227-79**
Receiver Tank	510-10000
Liquid Valve	56659
Suction Valve	56659
Filter Drier	71116
Sight Glass	70084
Unit Model	**AE4460Y-AA3CDP**
Unit Bill of Material	**2G227-89**
Receiver Tank	510-10000
Liquid Valve	56659
Suction Valve	56659
Power Cord	85106-14
Filter Drier	71116
Sight Glass	70084

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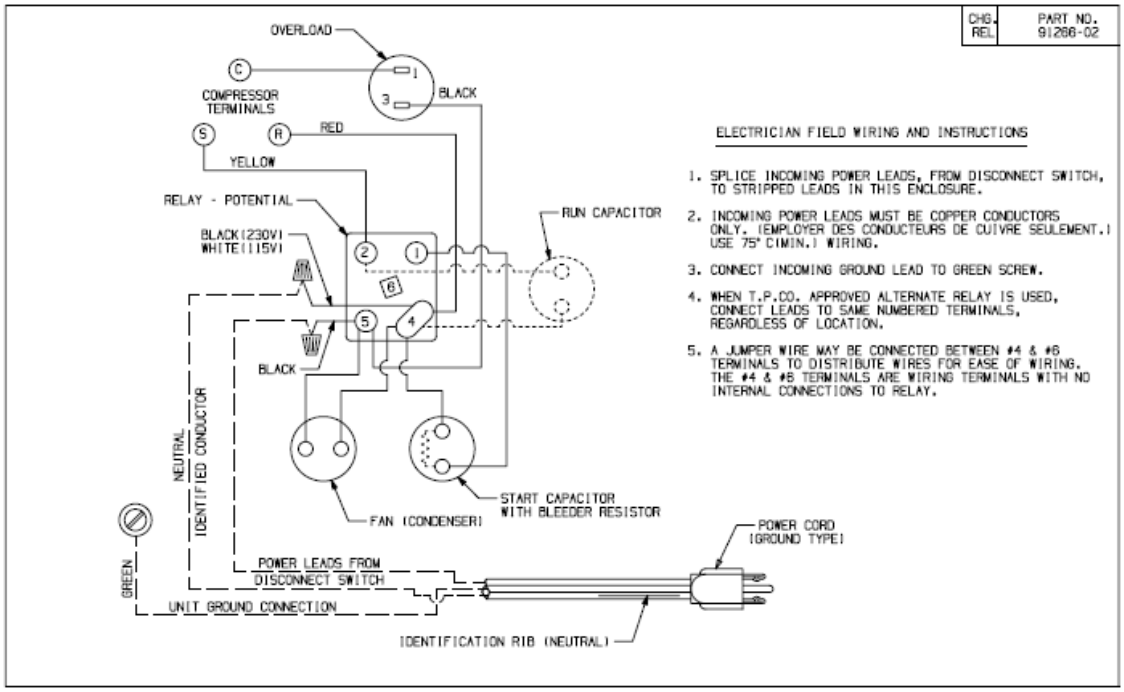
Electrical Diagram Page 3


CHG. REL
PART NO. 91266-02
OVERLOAD
C
COMPRESSOR TERMINALS
S
R
RED
YELLOW
BLACK
RELAY - POTENTIAL
BLACK(230V) WHITE(115V)
RUN CAPACITOR
BLACK
NEUTRAL
IDENTIFIED CONDUCTOR
FAN (CONDENSER)
START CAPACITOR WITH BLEEDER RESISTOR
POWER CORD (GROUND TYPE)
GREEN
POWER LEADS FROM DISCONNECT SWITCH
UNIT GROUND CONNECTION
IDENTIFICATION RIB (NEUTRAL)
ELECTRICIAN FIELD WIRING AND INSTRUCTIONS
1. SPLICE INCOMING POWER LEADS, FROM DISCONNECT SWITCH, TO STRIPPED LEADS IN THIS ENCLOSURE.
2. INCOMING POWER LEADS MUST BE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVRE SEULEMENT.) USE 75° C(MIN.) WIRING.
3. CONNECT INCOMING GROUND LEAD TO GREEN SCREW.
4. WHEN T.P.CO. APPROVED ALTERNATE RELAY IS USED, CONNECT LEADS TO SAME NUMBERED TERMINALS, REGARDLESS OF LOCATION.
5. A JUMPER WIRE MAY BE CONNECTED BETWEEN #4 & #6 TERMINALS TO DISTRIBUTE WIRES FOR EASE OF WIRING. THE #4 & #6 TERMINALS ARE WIRING TERMINALS WITH NO INTERNAL CONNECTIONS TO RELAY.